

ABSTRACT

An apparatus for slush molding a thin shell having an outer layer and an inner layer. The apparatus includes two tubs alternately movable to a cast position for dispensing their respective material contents into a mold cavity. According to another embodiment of the invention, the apparatus includes a diverter valve configured to alternately open a passage from each of two tubs to the mold cavity to selectively dispense charge materials from the respective tubs into the mold cavity. In addition, a method is provided for forming a thin shell having an outer layer and an inner layer. A first polymer material is cast and allowed to melt on a heated mold surface to form an outer layer. A second polymer material is then cast and allowed to melt and form an inner layer on the inner surface of the outer layer. The shell is then removed from the mold.